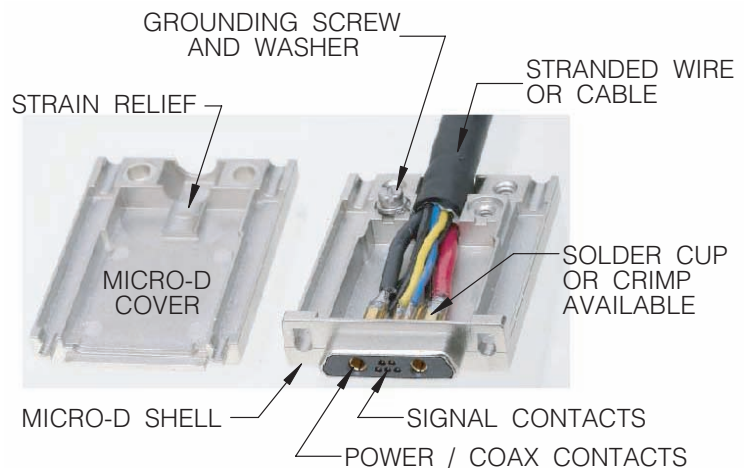
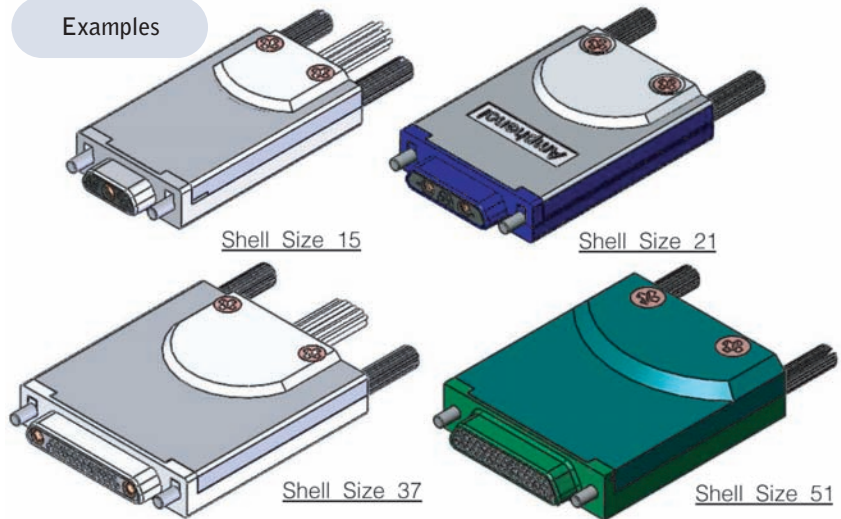


SHELL SIZE 51 SHOWN
(CONSULT FACTORY FOR OTHER SIZES
OR INSERT PATTERNS)

Examples



FEATURES

- Easy assembly
- All-in-one Micro-D connector and EMI backshell
- Eliminate the use of retaining clip (E-clip) hardware
- Built in strain relief
- Grounding screw and washer included
- Solder cup and wire termination available
- Sizes 9 thru 100 available
- Standard MIL-DTL-83513 insert pattern or custom insert pattern available
- Signal / Power / Coaxial contacts available
- Consult factory for angled cable exit or specific cable diameter requirement

MATERIAL & FINISH

Material: Aluminum alloy (consult factory for zinc alloy)

Finish: Electroless nickel

Hardware: Stainless steel

PERFORMANCE INFORMATION

- D.W.V. 600 VAC (at sea level)
- Insulation resistance: 5000 megaohms min.
- Temperature rating: -55 deg C to +125 deg C (+85 deg C for zinc alloy)
- Designed to meet MIL-DTL-83513 performance standards

INCHES (MM)

Amphenol
Canada

Series MBS

Example:
MBS-09N-EA00-M5

Description: metal backshell size 9, nickel finish,
cable exit "A" straight with "M5" hardware

MBS - **XXX** **X** - **E** **X** **XX** **XX**

MBS = EMI Backshell
(aluminum alloy material)

Connector Size (number of contacts)
09, 15, 21, 25, 31, 37, 51, 100

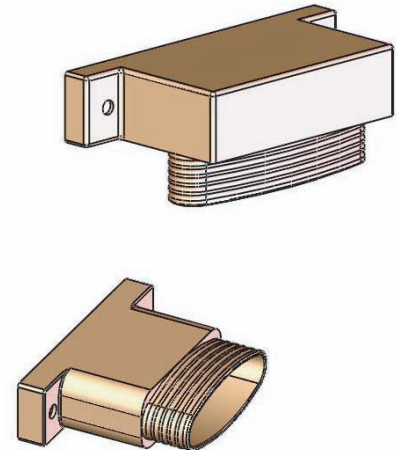
Shell Finish
C = cadmium
N = electroless nickel
G = gold
Z = customer specified plating
(e.g. olive drab camium)

Exit Shape
E = elliptical

Cable Exit Size
A, B, C, D, E, F, G, H
See page 39 for straight exit
See page 40 for right angle exit

Exit Angle
00 = straight
90 = right angle

Hardware
M5 = low profile jackscrew (slot head)
M6 = high profile jackscrew (slot head)
P = jackpost
Omit for no hardware



FEATURES

The Amphenol Micro-D EMI backshell series MBS is designed for use with M83513 connectors.

It is a reliable means of providing EMI and strain relief for harnessed connectors.

Available for sizes 9 thru 100.

Available in straight or 90 deg exit angle (consult factory for 45 deg or alternate exit angle).

Backshells are machined from Aluminum alloy and are offered with various plating options.

PERFORMANCE INFORMATION

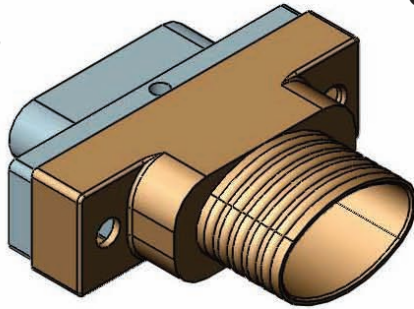
Magnetic permeability (MIL-I-17214): less than 2 mu

Shielding efficiency: to 1 GHz, 60 db to > 100 db

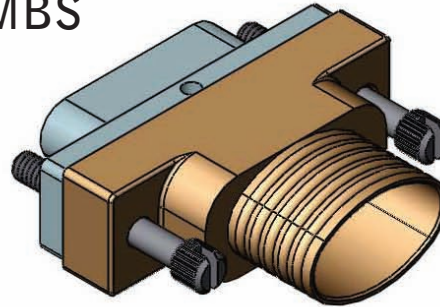
Vibration (per MIL-STD-1344 Method 2004, condition C): no damage or discontinuity between shell and shield

Series MBS

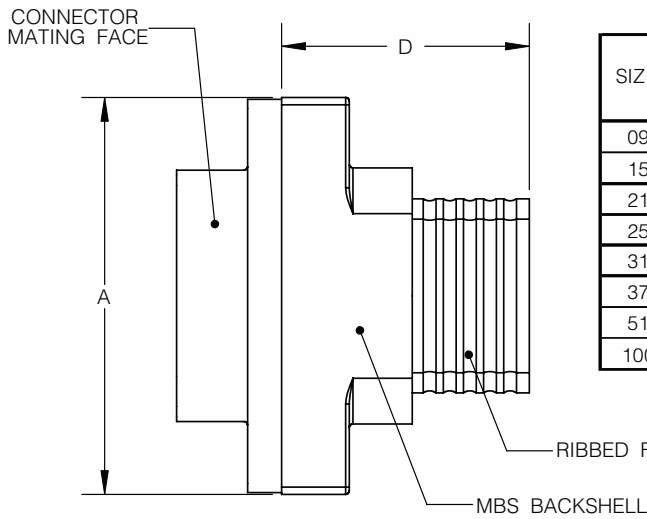
Connector shown for reference (order separately)



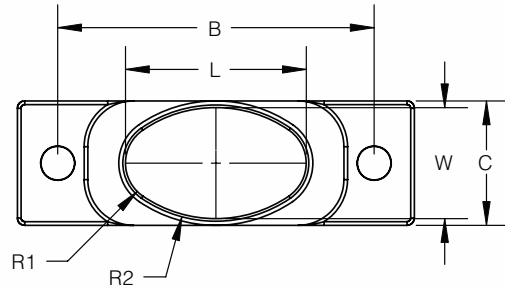
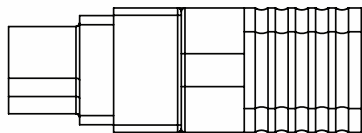
NO HARDWARE SHOWN



WITH HARDWARE SHOWN



SIZE	A MAX	B ±.005 (0.13)	C ±.005 (0.13)	D ±.020 (0.51)
09	.785 (19.94)	.565 (14.35)	.340 (8.64)	.762 (19.35)
15	.935 (23.75)	.715 (18.16)	.340 (8.64)	.812 (20.62)
21	1.085 (27.56)	.865 (21.97)	.340 (8.64)	.862 (21.89)
25	1.185 (30.10)	.965 (24.51)	.340 (8.64)	.912 (23.16)
31	1.335 (33.91)	1.115 (28.32)	.340 (8.64)	.952 (24.18)
37	1.485 (37.72)	1.265 (32.13)	.340 (8.64)	.992 (25.20)
51	1.435 (36.45)	1.215 (30.86)	.400 (10.16)	1.072 (27.32)
100	2.175 (55.25)	1.800 (45.72)	.450 (11.43)	1.137 (28.88)

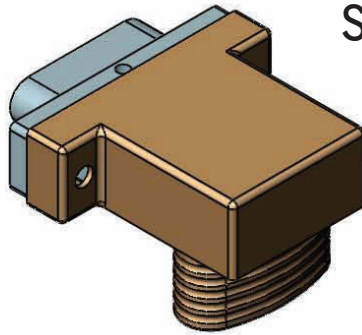


SIZE	W ±.010 (0.25)	L ±.010 (0.25)	R1 ±.010 (0.25)	R2 ±.020 (0.51)	AVAILABLE ON SIZE
A	.290 (7.37)	.344 (8.74)	.109 (2.77)	.182 (4.62)	09 THRU 100
B	.290 (7.37)	.494 (12.55)	.109 (2.77)	.353 (8.97)	15 THRU 100
C	.290 (7.37)	.644 (16.36)	.109 (2.77)	.757 (19.23)	21 THRU 100
D	.304 (7.72)	.744 (18.90)	.109 (2.77)	.940 (23.88)	25 THRU 100
E	.304 (7.72)	.894 (22.71)	.109 (2.77)	1.488 (37.80)	31 THRU 100
F	.304 (7.72)	.994 (25.25)	.109 (2.77)	1.893 (48.08)	37 THRU 100
G	.304 (7.72)	1.044 (26.52)	.109 (2.77)	2.128 (54.05)	37 AND 100
H	.384 (9.75)	1.524 (38.71)	.125 (3.18)	3.187 (80.95)	100 ONLY

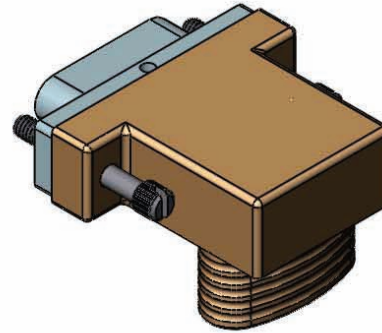
INCHES (MM)

Series MBS

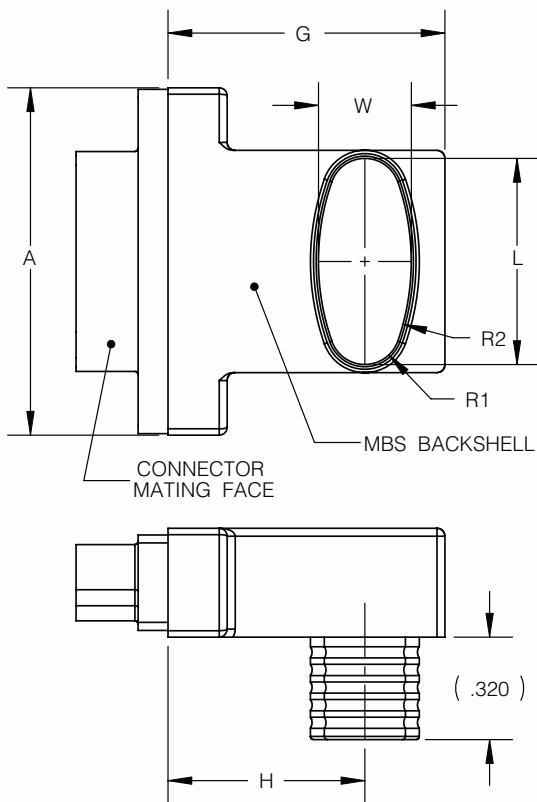
Connector shown for reference (order separately)



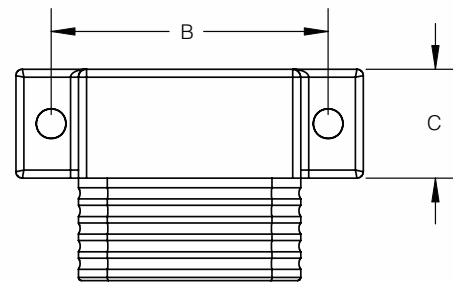
NO HARDWARE SHOWN



WITH HARDWARE SHOWN



SIZE	A MAX	B ±.005 (0.13)	C ±.005 (0.13)	G MAX	H ±.010 (0.25)
09	.785 (19.94)	.565 (14.35)	.340 (8.64)	.865 (21.97)	.615 (15.62)
15	.935 (23.75)	.715 (18.16)	.340 (8.64)	.865 (21.97)	.615 (15.62)
21	1.085 (27.56)	.865 (21.97)	.340 (8.64)	.865 (21.97)	.615 (15.62)
25	1.185 (30.10)	.965 (24.51)	.340 (8.64)	.885 (22.48)	.625 (15.88)
31	1.335 (33.91)	1.115 (28.32)	.340 (8.64)	.885 (22.48)	.625 (15.88)
37	1.485 (37.72)	1.265 (32.13)	.340 (8.64)	.885 (22.48)	.625 (15.88)
51	1.435 (36.45)	1.215 (30.86)	.400 (10.16)	.925 (23.50)	.645 (16.38)
100	2.175 (55.25)	1.800 (45.72)	.450 (11.43)	.980 (24.89)	.657 (16.69)



SIZE	W ±.010 (0.25)	L ±.010 (0.25)	R1 ±.010 (0.25)	R2 ±.020 (0.51)	AVAILABLE ON SIZE
A	.290 (7.37)	.344 (8.74)	.109 (2.77)	.182 (4.62)	09 THRU 100
B	.290 (7.37)	.494 (12.55)	.109 (2.77)	.353 (8.97)	15 THRU 100
C	.290 (7.37)	.644 (16.36)	.109 (2.77)	.757 (19.23)	21 THRU 100
D	.304 (7.72)	.744 (18.90)	.109 (2.77)	.940 (23.88)	25 THRU 100
E	.304 (7.72)	.894 (22.71)	.109 (2.77)	1.488 (37.80)	31 THRU 100
F	.304 (7.72)	.994 (25.25)	.109 (2.77)	1.893 (48.08)	37 THRU 100
G	.304 (7.72)	1.044 (26.52)	.109 (2.77)	2.128 (54.05)	37 AND 100
H	.384 (9.75)	1.524 (38.71)	.125 (3.18)	3.187 (80.95)	100 ONLY